	Be Duodeca	-	Ро	wer T	ube			
•	For Vertical-Defl	• •	Ampl	ifier				
	Circuits in TV Receivers							
	ELECTRICAL CHARACTERISTICS - Bogey Values							
		E _h	• .	6.3	v			
<u></u>	**	h	(0.8	A			
	Direct Interelectrode	••						
	Capacitances: a							
	Grid No.1 to plate cg	l-p	0.54		pF			
	TA. C1 4 /TZ CO CO TT\	e,	9.5		pF			
.~	O-1- 1- TO 1 (TZ CIO CIO TT)	O		7.0	pF			
	For the following characteristics, see Conditions below:							
	Plate Resistance (approx.) . r	n	_	50000	Ω			
	Transconductance g	- n	- .	4100	μ mho			
	DC Plate Current I	h 1	180 <mark>p</mark>	43	$\mathbf{m}\mathbf{A}$			
	DC Grid-No.2 Current I _c	2	20 b	3.5	mA			
	Cutoff DC Grid-No.1 Voltage for $I_b = 100 \mu AE_{c1}$		_	-50	v			
	Conditions:							
	Heater Voltage E	h	6.3	6.3	V			
	DC Plate Voltage E		60	250	v			
	DC Grid-No.2 Voltage E	2	250	250	v			
	DC Grid-No.1 Voltage E		0^{c}	-20	V			
	MECHANICAL CHARACTERIST Maximum Overall Length Maximum Seated Length Maximum Diameter Dimensional Outline Envelope	TICS	 	2.500in (6 1.188in (3 JEDE	3.5 mm) 0.1 mm) EC 9-60 DEC T9			
*	Terminal Diagram	• • • • • •	Co	ated Unipo	tential			
_	For operation as a Vertical- in a 525-line, 30	Deflecti	on-A	nplifier Ti	ıbe			
	DC Plate Supply Voltage Peak Positive-Pulse Plate Voltage		E _{bb}	350 2500	V V			

DC Grid-No.2 (Screen-Grid) Voltage .	E _{c2}	300	v			
Heater-Cathode Voltage:	-					
Peak	$e_{ m hkm}$	±200	V			
Average	Ehk	100	V			
Heater Voltage, ac or dc	$\mathbf{E_h}$	5.7 to 6.9	V			
Cathode Current:						
Peak	i _{km}	260	mA			
Average	I _{k(av)}	75	mA			
Grid-No.2 Input	P_{g2}	2.75	W			
Plate Dissipation f	$P_{\mathbf{b}}$	12	W			
Envelope Temperature (at hottest point	U					
on envelope surface.)	$\mathbf{T_{E}}$	200	оC			
MAXIMUM CIRCUIT VALUES						
Grid-No.1-Circuit Resistance			_			
With fixed bias	$R_{\sigma 1}$	1.0	W ₍)			
With cathode bias	-	2.2	$\mathbf{M}\Omega$			
Magazzad without external shield in accordance with the						

^a Measured without external shield in accordance with the current issue of EIA Standard RS-191.

b This value can be measured by a method involving a recurrent waveform such that the Maximum Ratings of the tube will not be exceeded.

Applied for two seconds maximum so as not to damage tube.

d Unless otherwise specified, as defined in the current issue of EIA Standard RS-239.

This rating is applicable when the duration of the voltage pulse does not exceed 15% of one vertical scanning cycle. In a 525-line, 30-frame system, 15% of one vertical scanning cycle is 2.5 ms.

f An adequate bias resistor or other means is required to protect the tube in the absense of excitation.

TERMINAL DIAGRAM - Bottom View

Pin 1 - Heater

Pin 2 - Grid No.1

Pin 3 - Grid No.2

Pin 4 - Grid No.3, Cathode

Pin 5 - No Connection

Pin 6 - Plate

Pin 7 - No Connection

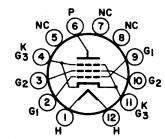
Pin 8 - No Connection

Pin 9 - Grid No.1

Pin 10 - Grid No.2

Pin 11 - Grid No.3, Cathode

Pin 12 - Heater



JEDEC 12EY